

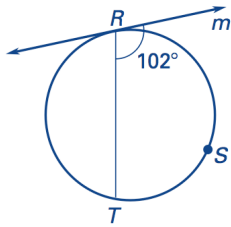
Geometry 10.4 Notes: Other Angle Relationship in a circle

Location of Vertex	Picture Example	Algebraic Relationship
Center		
On the circle		
Inside the circle (<u>not</u> at the center)		
Outside the circle		

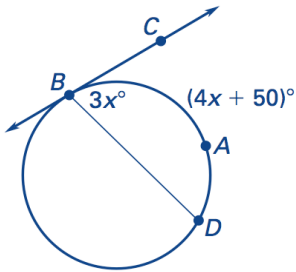
Geometry 10.4 Notes: Other Angle Relationship in a circle

Examples

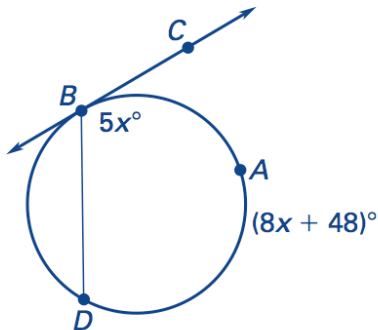
1. m is tangent to the circle. Find $m\widehat{RST}$



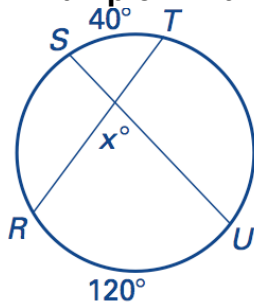
2. \overline{BC} is tangent the circle. Find $m\angle CBD$.



3. Guided Practice: \overline{BC} is tangent the circle. Find $m\angle CBD$.

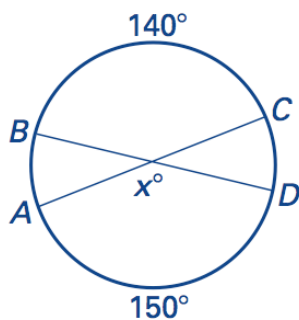


4. Example: Find the value of x .



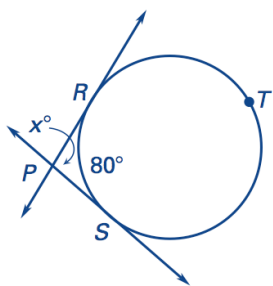
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5. Guided Practice: Find the value of x .



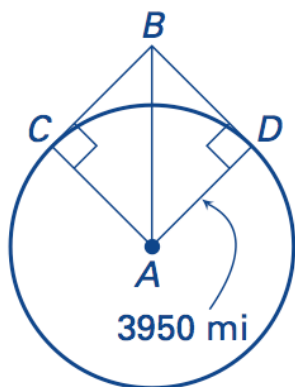
Examples

6. Find the value of x .



7. You are standing on top of a tall building about 0.22 miles above sea level.

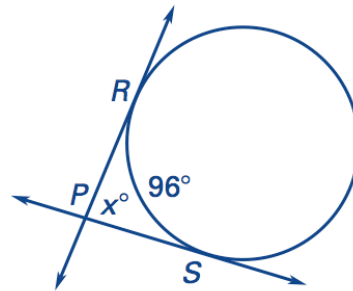
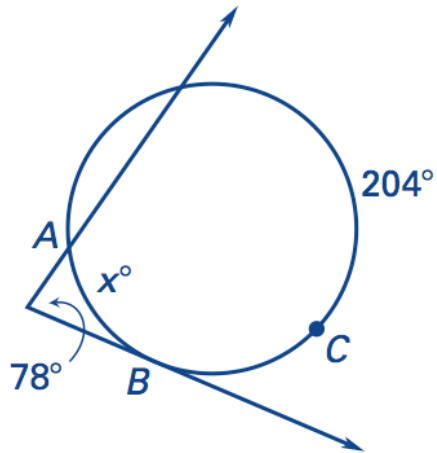
Find $m\widehat{CD}$.



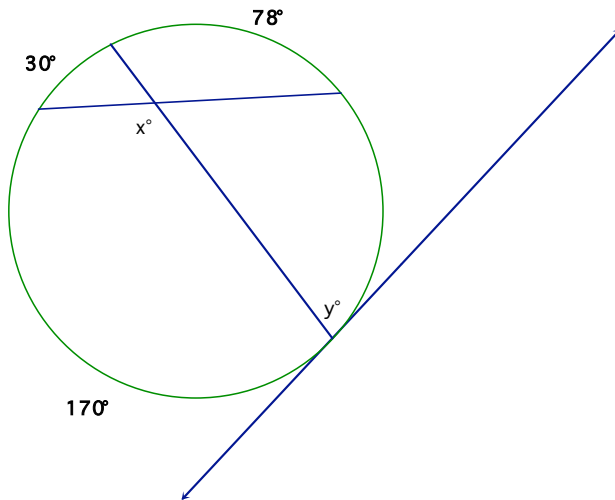
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Guided Practice

8. Find the value of x .



9. Find the values of x and y .



10. If a chord of a circle intersects a tangent to the circle at a the point of tangency, what is the relationship between the angles formed and the intercepted arcs?